

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10759,783  
Source: JFW/6  
Date Processed by STIC: 11/31/07

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 01/31/2007

PATENT APPLICATION: US/10/759,783

TIME: 11:23:52

Input Set : A:\-37-1.APP

Output Set: N:\CRF4\01302007\J759783.raw

```

4 <110> APPLICANT: Lo, Yuk-Ming Dennis
5      Ng, Kai On
6      Tsui, Bo Yin
7      Chiu, Wai Kwun Rossa
8      The Chinese University of Hong Kong
10 <120> TITLE OF INVENTION: Circulating mRNA as Diagnostic Markers
13 <130> FILE REFERENCE: 016285-003710US
15 <140> CURRENT APPLICATION NUMBER: US 10/759,783
16 <141> CURRENT FILING DATE: 2004-01-16
18 <150> PRIOR APPLICATION NUMBER: US 60/440,906
19 <151> PRIOR FILING DATE: 2003-01-17
21 <160> NUMBER OF SEQ ID NOS: 28
23 <170> SOFTWARE: FastSEQ for Windows Version 3.0
25 <210> SEQ ID NO: 1
26 <211> LENGTH: 19
27 <212> TYPE: DNA
28 <213> ORGANISM: Artificial Sequence
30 <220> FEATURE:
31 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR
32      corticotropin releasing hormone (CRH) forward
33      primer
35 <400> SEQUENCE: 1
36      gcctcccatc tccctggat
38 <210> SEQ ID NO: 2
39 <211> LENGTH: 22
40 <212> TYPE: DNA
41 <213> ORGANISM: Artificial Sequence
43 <220> FEATURE:
44 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR
45      corticotropin releasing hormone (CRH) reverse
46      primer
48 <400> SEQUENCE: 2
49      tgtgagcttg ctgtgctaac tg
51 <210> SEQ ID NO: 3
52 <211> LENGTH: 25
53 <212> TYPE: DNA
54 <213> ORGANISM: Artificial Sequence
56 <220> FEATURE:
57 <223> OTHER INFORMATION: corticotropin releasing hormone (CRH)
58      dual-labelled fluorescent probe
W--> 60 <221> NAME/KEY: modified_base
61 <222> LOCATION: (1)...(1)
62 <223> OTHER INFORMATION: n = 6-carboxyfluorescein (FAM) modified t

```

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W--> 64 <221> modified_base
65 <222> LOCATION: (25)...(25)
66 <223> OTHER INFORMATION: n = 6-carboxytetramethylrhodamine (TAMRA) modified
67      c
W--> 69 <400> 3
W--> 70  ncctccggga agtcttgga atggn                                25
72 <210> SEQ ID NO: 4
73 <211> LENGTH: 95
74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: high performance liquid chromatography-purified
79      single stranded synthetic DNA oligonucleotide
80      corticotropin releasing hormone (CRH) amplicon for
81      CRH calibrations
83 <400> SEQUENCE: 4
84  ggagcctccc atctccctgg atctcacctt ccacctctc cggaagtct tggaaatggc      60
85  cagggccgag cagttagcac agcaagtca cagca                                95
87 <210> SEQ ID NO: 5
88 <211> LENGTH: 21
89 <212> TYPE: DNA
90 <213> ORGANISM: Artificial Sequence
92 <220> FEATURE:
93 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR
94      intron-spanning human placental lactogen (hPL)
95      sense primer
97 <400> SEQUENCE: 5
98  catgactccc agacctcctt c                                21
100 <210> SEQ ID NO: 6
101 <211> LENGTH: 20
102 <212> TYPE: DNA
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR
107      intron-spanning human placental lactogen (hPL)
108      antisense primer
110 <400> SEQUENCE: 6
111  tgcggagcag ctctagattg                                20
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 25
115 <212> TYPE: DNA
116 <213> ORGANISM: Artificial Sequence
118 <220> FEATURE:
119 <223> OTHER INFORMATION: human placental lactogen (hPL) dual-labelled
120      fluorescence probe
W--> 122 <221> NAME/KEY: modified_base
123 <222> LOCATION: (1)...(1)
124 <223> OTHER INFORMATION: n = 6-carboxyfluorescein (FAM) modified t
W--> 126 <221> modified_base

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```

127 <222> LOCATION: (25)...(25)
128 <223> OTHER INFORMATION: n = 6-carboxytetramethylrhodamine (TAMRA) modified
129      g
W--> 131 <400> 7
W--> 132 ntctgttgcg ttctctccat gttgn 25
134 <210> SEQ ID NO: 8
135 <211> LENGTH: 20
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR
141      intron-spanning human chorionic gonadotropin beta
142      subunit (hCG-beta) sense primer
144 <400> SEQUENCE: 8
145 ctactgcccc accatgaccc 20
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 19
149 <212> TYPE: DNA
150 <213> ORGANISM: Artificial Sequence
152 <220> FEATURE:
153 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR
154      intron-spanning human chorionic gonadotropin beta
155      subunit (hCG-beta) antisense primer
157 <400> SEQUENCE: 9
158 tggactcgaa gcgcacatc 19
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 25
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <223> OTHER INFORMATION: human chorionic gonadotropin beta subunit
167      (hCG-beta) dual-labelled fluorescent probe
W--> 169 <221> NAME/KEY: modified_base
170 <222> LOCATION: (1)...(1)
171 <223> OTHER INFORMATION: n = 6-carboxyfluorescein (FAM) modified c
W--> 173 <221> modified_base
174 <222> LOCATION: (25)...(25)
175 <223> OTHER INFORMATION: n = 6-carboxytetramethylrhodamine (TAMRA) modified
176      c
W--> 178 <400> 10
W--> 179 nctgcctcag gtggtgtgca actan 25
181 <210> SEQ ID NO: 11
182 <211> LENGTH: 98
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: high performance liquid chromatography-purified
188      single stranded synthetic DNA oligonucleotide
189      human placental lactogen (hPL) amplicon for hPL

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```

190      calibrations
192 <400> SEQUENCE: 11
193   tgcggagcag ctctagattg gatttctgtt gcgtttcctc catgttggag ggtgtcggaa      60
194   tagagtctga gaagcagaag gaggtctggg agtcatgc      98
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 96
198 <212> TYPE: DNA
199 <213> ORGANISM: Artificial Sequence
201 <220> FEATURE:
202 <223> OTHER INFORMATION: high performance liquid chromatography-purified
203   single stranded synthetic DNA oligonucleotide
204   human chorionic gonadotropin beta subunit
205   (hCG-beta) amplicon for hCG-beta calibrations
207 <400> SEQUENCE: 12
208   gatggactcg aagcgcacat cgcggtagtt gcacaccacc tgaggcaggg ccggcaggac      60
209   cccctgcagc acgcgggtca tggtaggggca gtagcc      96
211 <210> SEQ ID NO: 13
212 <211> LENGTH: 23
213 <212> TYPE: DNA
214 <213> ORGANISM: Artificial Sequence
216 <220> FEATURE:
217 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR tissue
218   factor pathway inhibitor 2 (TFPI2) sense primer
220 <400> SEQUENCE: 13
221   acaaatttct acacctggga ggc      23
223 <210> SEQ ID NO: 14
224 <211> LENGTH: 21
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
228 <220> FEATURE:
229 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR tissue
230   factor pathway inhibitor 2 (TFPI2) antisense
231   primer
233 <400> SEQUENCE: 14
234   cggcaaactt tgggaacttt t      21
236 <210> SEQ ID NO: 15
237 <211> LENGTH: 22
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: tissue factor pathway inhibitor 2 (TFPI2)
243   dual-labelled fluorescent probe
W--> 245 <221> NAME/KEY: modified_base
246 <222> LOCATION: (1)...(1)
247 <223> OTHER INFORMATION: n = 6-carboxyfluorescein (FAM) modified t
W--> 249 <221> modified_base
250 <222> LOCATION: (22)...(22)
251 <223> OTHER INFORMATION: n = 6-carboxytetramethylrhodamine (TAMRA) modified
252   a

```

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```

W--> 254 <400> 15
W--> 255  ngcgacgatg cttgctggag gn                                22
257 <210> SEQ ID NO: 16
258 <211> LENGTH: 17
259 <212> TYPE: DNA
260 <213> ORGANISM: Artificial Sequence
262 <220> FEATURE:
263 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR KiSS1
264     metastasis-suppressor (KiSS1) sense primer
266 <400> SEQUENCE: 16
267  gccacaggcca ggactga                                17
269 <210> SEQ ID NO: 17
270 <211> LENGTH: 23
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR KiSS1
276     metastasis-suppressor (KiSS1) antisense primer
278 <400> SEQUENCE: 17
279  gccaaagaaac cagtgagttc atc                                23
281 <210> SEQ ID NO: 18
282 <211> LENGTH: 30
283 <212> TYPE: DNA
284 <213> ORGANISM: Artificial Sequence
286 <220> FEATURE:
287 <223> OTHER INFORMATION: KiSS1 metastasis-suppressor (KiSS1) dual-labelled
288     fluorescent probe
W--> 290 <221> NAME/KEY: modified_base
291 <222> LOCATION: (1)...(1)
292 <223> OTHER INFORMATION: n = 6-carboxyfluorescein (FAM) modified c
W--> 294 <221> modified_base
295 <222> LOCATION: (30)...(30)
296 <223> OTHER INFORMATION: n = 6-carboxytetramethylrhodamine (TAMRA) modified
297     c
W--> 299 <400> 18
W--> 300  nctcaaggca cttctaggac ctggctcttn                                30
302 <210> SEQ ID NO: 19
303 <211> LENGTH: 20
304 <212> TYPE: DNA
305 <213> ORGANISM: Artificial Sequence
307 <220> FEATURE:
308 <223> OTHER INFORMATION: one-step real-time quantitative RT-PCR
309     placenta-specific 1 (PLAC1) sense primer
311 <400> SEQUENCE: 19
312  attatcccca gctgccagaa                                20
314 <210> SEQ ID NO: 20
315 <211> LENGTH: 23
316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/759,783

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:3; N Pos. 1,25 ✓

Seq#:7; N Pos. 1,25 ✓

Seq#:10; N Pos. 1,25 ✓

Seq#:15; N Pos. 1,22 ✓

Seq#:18; N Pos. 1,30 ✓

Seq#:21; N Pos. 1,27 ✓

Seq#:24; N Pos. 1,25 ✓

## VERIFICATION SUMMARY

DATE: 01/31/2007

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Input Set : A:\-37-1.APP

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L:60 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:64 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:69 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:3  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:122 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:126 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:131 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:7  
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:169 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:173 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:178 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10  
L:179 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:245 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:249 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15  
L:254 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:15  
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:290 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:294 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18  
L:299 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18  
L:300 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:335 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:339 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21  
L:344 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:21  
L:345 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:379 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!  
L:383 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:388 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:24  
L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0